CLAIMS:

1. A display device having a set of non-pixel-selective electrodes (1a, 1b), and a set of pixel-selective electrodes (2a, 2b, 2c), pixels (15) being defined by intersections of said electrodes,characterized by means (3, 4a, 4b, 5, 6, 7) for applying an amplitude modulated (AM) signal to a non-pixel-selective electrode (1a, 1b), and means (10a, 10b, 11, 13) for applying a pulse width modulated (PWM) signal to a pixel-selective electrode (2a, 2b, 2c).

2. A display device according to claim 1, wherein said means for applying an AM signal comprises a memory (5) for storing a predefined amplitude curve.

3. A display device according to claim 1, wherein said means for applying an AM signal comprises analogue electronics.

4. A display device according to claim 1, wherein said non-pixel-selective electrodes (1a, 1b) are the row electrodes of the display.

5. A display device according to claim 1-4, wherein each pixel (15) comprises a field emitter (16) connected to a pixel-selective electrode (2a, 2b, 2c), and wherein the non-pixel-selective electrode (1a, 1b) acts as a gate electrode.

6. A method for driving a display device comprising a set of non-pixel-selective electrodes, and a set of pixel-selective electrodes, pixels being defined by intersections of said electrodes, characterized by:

applying an amplitude modulated (AM) signal to a non-pixel-selective electrode (1a, 1b), and

applying a pulse width modulated (PWM) signal to a pixel-selective electrode (2a, 2b, 2c).

7. A method according to claim 6, wherein the AM signal is increased from a threshold value to a maximum value during a line period.

8. A method according to claim 6, wherein the amplitude curve of the AM signal is alternated between consecutive line periods.

9. A method according to claim 8, wherein the AM signal is increased from a threshold value to a maximum value during one line period and decreased from said maximum value to said threshold value during the next consecutive line period.

10. A method according to one of claims 6-9, wherein the amplitude curve of the AM signal is alternated between consecutive frames.

11. A method according to one of claims 6-10, wherein the PWM signal is applied to said pixel-selective electrode first, and the AM signal is applied to said non-pixel-selective electrode when the rise-time of the PWM signal has passed.